Lafferty Equipment Manufacturing, LLC Installation & Operation Instructions

Model # 933712-V · Dual Pump FPV-PD Concrete Sprayer / Foamer

REQUIREMENTS Ready-to-Use Chemical Solution Compressed Air up to 6 CFM Hose Foam Foam 3/4" ID x 50' Spray 1/2" ID x 50' Nozzle Foam Spray 2520

OPTIONS

Stainless Steel Hose Racks Large Stainless Steel Hose Rack	# 224150		
To Dilute and Dispense Ready-To-Use	Acid Colution		
TO Dilute and Dispense Ready-10-056	e Acid Solution		
414HC Acid Mixing Station	# 980415		
Drum & Tote Stick Lengths & Seal Materials			
Drum Stick, 33" (Viton or EPDM)	# 491643 / 491643-E		
Drum Stick, 48" (Viton or EPDM)	# 491648 / 491648-E		
Drum Stick, 54" (Viton or EPDM)	# 491645 / 491645-E		
Tote Stick, 33" (Viton or EPDM)	# 491653 / 491653-E		
Tote Stick, 48" (Viton or EPDM)	# 491654 / 491654-E		
Tote Stick, 54" (Viton or EPDM)	# 491656 / 491656-E		





www.laffertyequipment.com 501-851-2820

WARNING! READ ALL
INSTRUCTIONS BEFORE
USING EQUIPMENT!

OVERVIEW

The Dual Pump FPV-PD Concrete Sprayer / Foamer is a combination chemical spray and foam applicator for use with highly corrosive chemicals such as those used to remove concrete and for aluminum brightening. This acid-resistant system uses 2 Flojet air-operated, double-diaphragm pumps to draw ready-to-use chemical solutions from static tanks. Compressed air is injected into the foaming solution to greatly increase volume and coverage ability and rich, clinging foam is projected through the foam hose, wand and fan nozzle. The other solution is projected as a chemical spray through a separate dedicated hose.

SAFETY & OPERATIONAL PRECAUTIONS

- For proper performance do NOT modify, substitute nozzle, hose diameter or length
- Manufacturer assumes no liability for the use or misuse of this unit.
- Wear protective clothing, gloves and eye-wear when working with chemicals.
- · Always direct the discharge away from people and electrical devices.
- Follow the chemical manufacturer's safe handling instructions.
- DO NOT use chemicals that are not compatible with Viton diaphragms.

TO INSTALL (REFER TO DIAGRAM ON NEXT PAGE)

- 1. Mount the unit above chemical solution containers to prevent siphoning.
- 2. Attach the discharge hose assemblies as shown.
- Securely attach the suction tubes to the pumps as shown and place the strainers into the ready to use chemical solution containers.
- 4. Attach a compressed airline to the inlet ball valve. DO NOT TURN ON

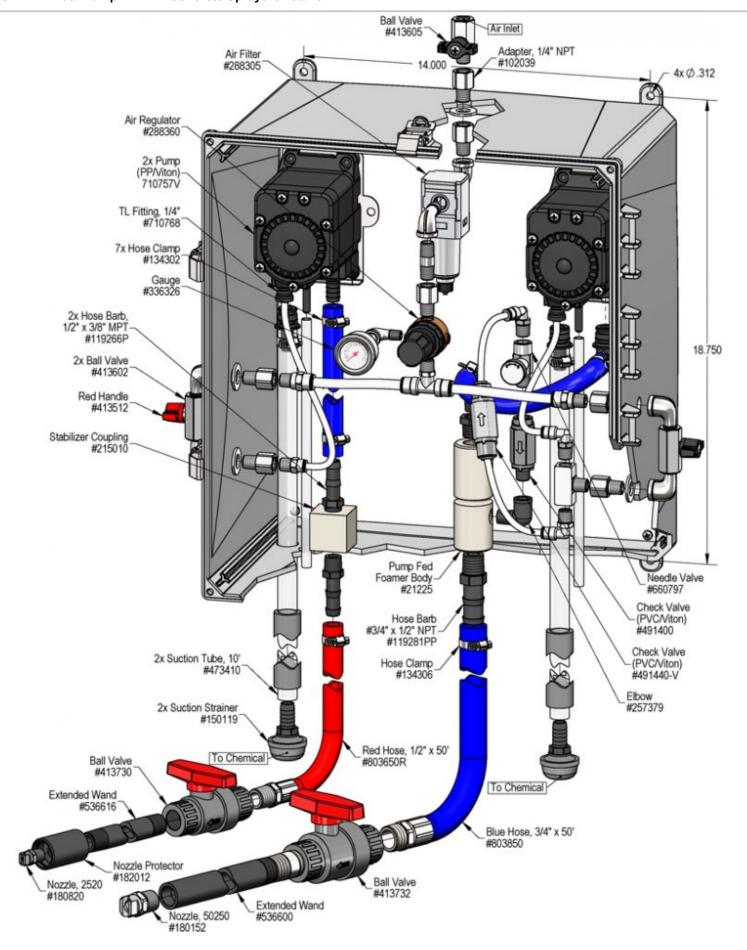
TO SPRAY

- Always make sure the discharge ball valve or trigger gun is closed and pointed in a safe direction before turning the air on. Discharge can be shut off at any time during operation but should not be left unattended for long periods of time.
- The unit has been tested and is ready to operate, the air pressure is preset at 60 PSI. This is the optimum pump pressure. Test "as is" before making any adjustments.
- With the wand in hand direct the discharge in a safe direction, open the discharge ball valve (or squeeze trigger gun), and open the air ball valve.
- 2. When spraying is complete:
 - o Close the discharge ball valve or release trigger.
 - o Promptly return to the unit and close the air ball valve.
 - \circ Briefly re-open the discharge ball valve or trigger gun to relieve pressure in the hose.
 - o Store the hose on optional hose rack.
- 3. IF applicable, rinse the work surface before the solution dries.

TO FOAM

- Always make sure the discharge ball valve is closed or pointed in a safe direction before turning the air
 on. Ball valve can be shut off at any time during operation but should not be left unattended for long
 periods of time. Expect a strong blast when re-opening ball valve.
- The unit has been tested and is ready to operate, the air pressure preset at 60 PSI. This is the optimum pump pressure. Test "as is" before making any adjustments.
- The foam consistency knob is pre-set. To adjust foam consistency, turn the foam consistency needle valve counterclockwise for drier foam and clockwise for wetter foam. Make 1/4 turns only - do not overcompensate.
 Wait several seconds after each adjustment to see the results.
- 1. With the foam wand in hand direct the discharge in a safe direction and open the discharge ball valve and the air hall valve
- If the flow of foam surges, the needle valve is open too much or the chemical concentration is too weak, reduce the air flow by turning the needle valve slowly clockwise until the foam flow stabilizes. Or add more chemical concentrate.
- 3. A medium-wet foam will give the best cleaning results! Very dry foam will NOT clean as well!
- 4. When foaming is complete:
 - o Close the discharge ball valve.
 - \circ Promptly return to the unit and close the air ball valve.
 - \circ Briefly re-open the discharge ball valve to relieve pressure in the hose.
- 5. Rinse the work surface before the foam dries.

UNIT FLOW RATES				
PSI	GPM			
	FOAM	SPRAY		
60	2.08	2.45		



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Troubleshooting Guide

Problem	Possible Cause / Solution	
	Startup	Maintenance
A) Air pump will not pump or runs with no output.	1, 2, 3, 4, 7	9, 10, 12, 13, 14
B) Foam surges and/or hose "bucks".	1, 2, 3, 4, 5, 6, 7	9, 12, 13
C) Foam output too wet.	1, 2, 3, 4, 5, 6	9, 12, 13
D) Foam output too dry.	2	
E) Cleaning results not acceptable.	5, 6, 8	

Possible Car	use / Solution
Startup	Maintenance
 Inlet ball valve partially closed or air pressure too low. Completely open air inlet ball valve. 	9. Solution strainer blockedo Clean or replace
2. Foam consistency needle valve open too much Adjust the needle valve slowly clockwise until foam stabilizes. Turn round handle slightly clockwise for wetter foam; open counterclockwise for dryer foam. Open a maximum of 1 turn.	 10. Air regulator failed Clean or replace 11. Air or water check valve(s) failed Clean or replace
3. Discharge ball valve not completely open or Discharge hose kinked • Completely open the discharge ball valve / straighten hose	 12. Discharge hose wrong size or kinked (See REQUIREMENTS, page 1). ○ Straighten the hose 13. Nozzle size too small or missing
4. Solution tube not completely immersed in chemical or container empty • Immerse tube or replenish chemical.	 See REQUIREMENTS, page 1. 14. Problem with air pump Refer to air pump instruction manual.
5. Dilution too weakAdd more chemical to solution container.	 https://www.xylem.com/en-us/brands/Flojet/flojet- products/g57-air-operated-double-diaphragm-pump Replace pump.
Improper chemical	
 7. Ice particles from condensation in air line — Air pump can periodically "freeze up" (stall) due to ice particles in the pump's exhaust (depending on air humidity & other factors) WAIT several seconds to allow the ice particles to melt and blow out, at which time the pump will automatically resume pumping. 	
8. Soil has hardened on surface • Always rinse foam before it dries.	

PREVENTIVE MAINTENANCE: When the unit will be out of service for extended periods, place chemical tube(s) in water and flush the chemical out of the unit to help prevent chemical from drying out and causing build-up. Periodically check and clean chemical strainer and replace if missing.

